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Amphenol Technical Products Internat

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- ChangZhou, China Telephone: +86 519 8981 9713 Address: No.11





HeliosFuse Features

- UL9703 listed

HeliosFuse

Amphenol Technical Products International (ATPI) offers products and solutions for all segments of the solar electric system. ATPI understands the need for efficient (low loss) power transfer, highly reliable, and cost effective solutions that are required to be competitive in this industry. We can provide panel manufactures, installer, and OEM's with connectivity products for both

ATPI's molded in-line fuse, HeliosFuse, provides a quick solution for installing in-line solar fuses. The molded construction provides weather tight housing preventing moisture from getting to the fuse construction. The in-line fuse provides the needed electrical protection to prevent damage to the solar array should a ground fault occur. HeliosFuse is currently offered in our custom wire

Amphenol Technical Products International can help you power the planet with the sun. The HeliosFuse is just one of the solar solutions Amphenol Technical Products

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- 1A to 45A current rating
- 1500V (1000V compatible)
- IP68 protection degree
- Meets UL94-V0 flammability rating
- UL4248-1 & UL4248-19 recognized

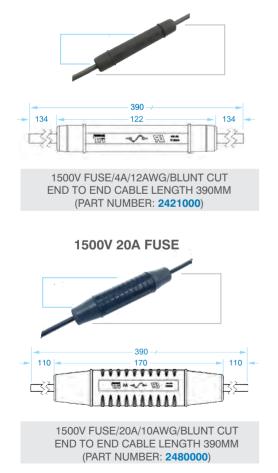


1500V HeliosFuse

Specifications

Description	1500V HeliosFuse					
Rated Voltage Fuse	1500V					
Rated Current Fuse	2.5A, 3.5A,4A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A,32A,35A,40A,45A					
Connector Options	UL Listed Connectors: H4, H4 Plus, MC4, EVO2, PV4-S1					
Cable Size Options	12AWG or 10AWG or 8AWG 2kV PV Wire					
Ingress Protection Degree	IP68 (1 Meter, 1 Hour)					
Ambient Temperature Range	-40°C to 50°C					
Material Safety	RoHS2 Compliant					
Flammability Classifications	UL94-V0					
Outdoor Suitability	UV Resistance, F1 Rated					
Approvals	UL4248-1; UL4248-18 Recognized (File#: E352863) UL9703 Listed (File#: E498904)					

1500V 2.5A-4A FUSE



– 153 – ANTYENA 200 1500V FUSE/15A/10AWG/H4 M-F END TO END CABLE LENGTH 390MM (456MM REF OVERALL W/CONNECTORS) (PART NUMBER: 2470020) 1500V 25A-45A FUSE 456 **→** 143 → ► - 143 -----

1500V 5A-15A FUSE

1500V FUSE/30A/10AWG/H4 PLUS M-F END TO END CABLE LENGTH 390MM FUSE SPACER INCLUDED (456MM REF OVERALL W/CONNECTORS) (PART NUMBER: **24A0050**)

Ordering Information

PRODUCT RATED TYPE CURRENT		PV WIRE SIZE		END TERMINATION / CONNECTORS		END TO ENDCABLE LENGTH		CUSTOM LENGTH					
	0	2.5 A			00	BLUNT CUT BOTH ENDS							
	1	3.5 A	0	10AWG	01	BOTH END PRESTRIPPED (8MM, SLUGS ON)	_						
	2	4 A					0 STANDARD (390 MM)						
	3	6 A			02	AMPHENOL H4 MALE TO H4 FEMALE (M-F)							
	4	8 A			03	MULTI CONTACT MC4 MALE TO FEMALE (M-F)							
24 1500V HeliosFuse	5	10 A	1	12AWG		MULTI CONTACT EVO2 MALE							
	6	12 A	2		04	TO FEMALE	-						
	7	15 A			05	AMPHENOL H4 PLUS MALE TO FEMALE (M-F)							
	8	20 A		2	8AWG	8AWG	8AWG	2 8AWG	06	TYCO ELECTRONIC PV4-S1 MALE TO FEMALE (M-F) (12AWG/10AWG)	- 1	CUSTOM	-X (mm)
	9	25 A					-						
	Α	30 A			07	OTHER CONNECTORS							
	В	32 A											
	С	35 A											
	D	40 A	-										
	E	45 A	_										
								ROHS					







OVERMOLDED SOLAR JUNCTIONS

Amphenol Technical Products International (ATPI) offers products and solutions for all segments of the solar electric system. ATPI understands the need for efficient (low loss) power transfer, highly reliable, and cost effective

ATPI's overmolded solar junctions provides the ideal low cost, high quality solution for commercial photovoltaic installations. The molded construction provides weather tight housing preventing moisture from getting to the cable joints and provides the needed electrical protection with a rugged design. They can be pre-fabricated with various lengths, number of branches, distance

Amphenol Technical Products International maintains the highest standards for excellence. The 1500V overmolded solar junctions is just one of the cost effective solar solutions Amphenol Technical Products International has to

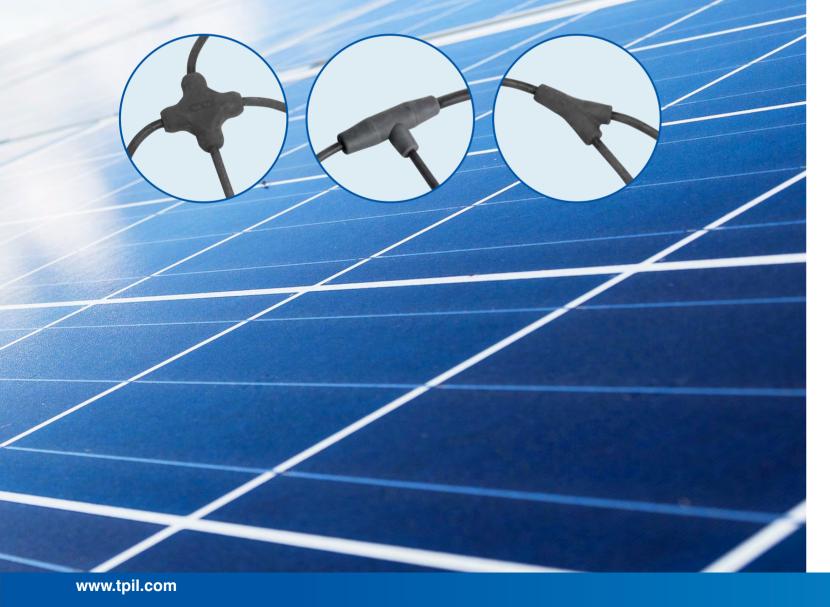
OVERMOLDED SOLAR JUNCTIONS

Features

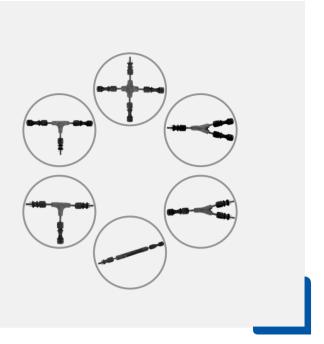
- 1500V DC Current Rating
- 4AWG, 6AWG, 8AWG, 10AWG, 12AWG, 14AWG cable options for 1500V
- IP68 ingress protection
- Long term UV resistance
- Ready for field assembly
- UL9703 listed & UL6703 approved
- Customer wiring harness services

Specification

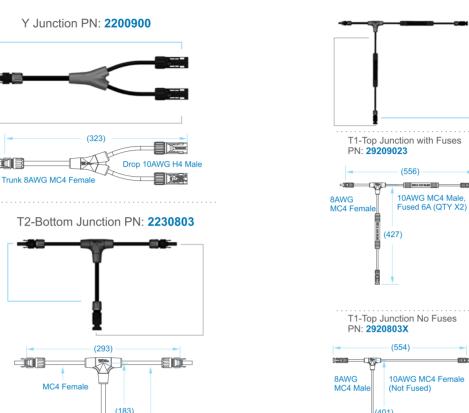
DC Current Rating	1500V (600V & 1000V Compatible)
Junction Current Rating	65A/8AWG, 45.1A/10AWG,32.8A/12AWG
Connector Options	H4/MC4/EVO2/H4 PLUS/PV4-S1
Cable Size Options	4AWG, 6AWG, 8AWG, 10AWG, 12AWG
Ingress Protection Degree	IP68 (1m Water/24hours)
Ambient Temperature Range	-40°C to 50°C
Material Safety	RoHS2 Compliant
Flammability Classifications	UL94-V0
Outdoor Suitability	UV Resistance, F1 Rated
Approvals	UL6703; UL4248-1; UL4248-19 Recognized UL9703 Listed







1500V Solar Junction



Drop 10AWG

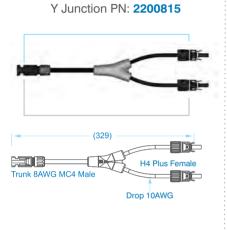
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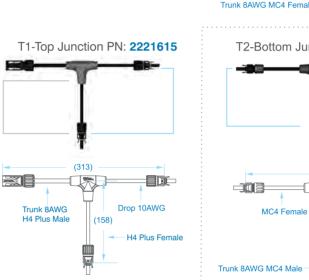
T2-Bottom Junction with Fuses PN: 29316087 (801) 10AWG H4 Plus Female Fused 15A (181) -Fused 6A (QTY X2) 8AWG H4 Plus Male T2-Bottom Junction No Fuses PN: 2930902X (832) -10AWG MC4 Male (Not Fused) (154) 曽 8AWG MC4 Female (401)

Ordering Information

$\begin{array}{cccccccccccccccccccccccccccccccccccc$									P	
STANDARD PRODUCT			ТҮРЕ	TRUNK SIDE			DROP SIDE	DROP WITH FUSES		
			Y	00	10AWG H4 MALE	00	10AWG H4 MALE	0	FUSED (2.5A)	
				01	10AWG H4 FEMALE				10028 (2.07.)	
		0		02	10AWG MC4 MALE	01	10AWG H4 FEMALE	1	FUSED (3.5A)	
				03	10AWG MC4 FEMALE					
				04	10AWG EVO2 MALE	02	10AWG MC4 MALE	2	FUSED (4A)	
			X	05	10AWG EVO2 FEMALE	03		3		
				06	8AWG H4 MALE	03	10AWG MC4 FEMALE	3	FUSED (6A)	
		1		07	8AWG H4 FEMALE	04	10AWG EVO2 MALE	4	FUSED (8A)	
				08	8AWG MC4 MALE					
	1500V			09	8AWG MC4 FEMALE	05	10AWG EVO2 FEMALE	5	FUSED (10A)	
29	OVERMOLD JUNCTION		T1-TOP	10	8AWG EVO2 MALE					
	JUNCTION			11	8AWG EVO2 FEMALE	06	10AWG BLUNT CUT	6	FUSED (12A)	
		2		12	10AWG BLUNT CUT	07	10AWG H4 PLUS MALE	7	FUSED (15A)	
				13	8AWG BLUNT CUT	07		1	103LD (13A)	
				14	10AWG H4 PLUS MALE	08	10AWG H4 PLUS FEMALE	8	FUSED (20A)	
		-		15	10AWG H4 PLUS FEMALE					
			T2-BOT	16	8AWG H4 PLUS MALE	09	10AWG PV4-S1 MALE	9	FUSED (25A)	
		3		17	8AWG H4 PLUS FEMALE					
				18	10AWG PV4-S1 MALE	10	10AWG PV4-S1 FEMALE	A	FUSED (30A)	
				19	10AWG PV4-S1 FEMALE	11	OTHER CONNECTORS	х	NO FUSE	
				20	OTHER CONNECTORS			^		

1500V Solar Junction X Junction PN: 2211415 (324)(299) Drop 10AWG Trunk 10AWG H4 Plus Male H4 Plus Female m





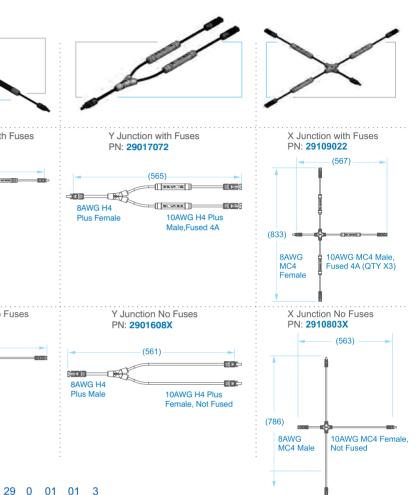
Ordering Information

STANDARD PRODUCT		ТҮРЕ			TRUNK SIDE	DROP SIDE		
			Y	00	10AWG H4 MALE	00	10AWG H4 MALE	
				01	10AWG H4 FEMALE	01	10AWG H4 FEMALE	
		0		02	10AWG MC4 MALE	02	10AWG MC4 MALE	
				03	10AWG MC4 FEMALE	03	10AWG MC4 FEMALE	
	1500V OVERMOLD JUNCTION			04	10AWG EVO2 MALE	04	10AWG EVO2 MALE	
			x	05	10AWG EVO2 FEMALE	05	10AWG EVO2 FEMALE	
				06	8AWG H4 MALE	06	8AWG H4 MALE	
		1		07	8AWG H4 FEMALE	07	8AWG H4 FEMALE	
				08	8AWG MC4 MALE	08	8AWG MC4 MALE	
				09	8AWG MC4 FEMALE	09	8AWG MC4 FEMALE	
22		2	T1-TOP	10	8AWG EVO2 MALE	10	8AWG EVO2 MALE	
				11	8AWG EVO2 FEMALE	11	8AWG EVO2 FEMALE	
				12	10AWG BLUNT CUT	12	10AWG BLUNT CUT	
				13	8AWG BLUNT CUT	13	8AWG BLUNT CUT	
				14	10AWG H4 PLUS MALE	14	10AWG H4 PLUS MALE	
				15	10AWG H4 PLUS FEMALE	15	10AWG H4 PLUS FEMALE	
		3	T2-BOT	16	8AWG H4 PLUS MALE	16	8AWG H4 PLUS MALE	
				17	8AWG H4 PLUS FEMALE	17	8AWG H4 PLUS FEMALE	
				18	10AWG PV4-S1 MALE	18	10AWG PV4-S1 MALE	
				19	10AWG PV4-S1 FEMALE	19	10AWG PV4-S1 FEMALE	
				20	OTHER CONNECTORS	20	OTHER CONNECTORS	

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BALANCE OF SYSTEM (BOS) SOLUTION FOR PV WIRING HARNESSES

Solar projects require custom wire harness solutions. Amphenol TPI has developed and certified a configurable product line to fit your project requirements and specifications.

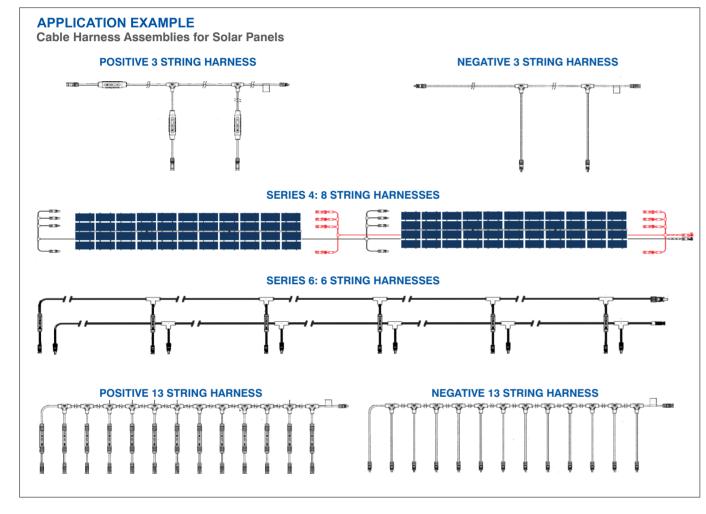
Certifications

UL9703 Listed Product

- UL4703 PV Wire
- UL4248 Overmolded Fuse
- UL6703 Connectors

Quality Inspection

- 100% Electrically Tested Point to Point
- Ensuring Each Harness is Defect Free
- Visual Inspection, Continuity Test, Resistance Check, Water Leakage test



Custom Harnesses

For custom solar wire harnesses for your project requirements, please contact ATPI's solar products team by referring to the contact Information section below.

Contact Information:

For further information on your individual application requirements or inquiries, please contact ATPI's solar products team:

North America

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Email solar@tpil.com Website <u>www.tpil.com</u>

